Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (Original) An intracorporeal device comprising:
- a) a helically wound coil having a plurality of windings forming a coil length; and
- b) four joining elements disposed along the coil length, wherein each joining element couples two or more coil windings.
- 2. (Previously presented) The intracorporeal device according to claim 1, wherein the joining elements include at least 10 elements disposed along the coil length.
- 3. (Withdrawn) The intracorporeal device according to claim 1, wherein the joining elements form a non-uniform pattern along the coil length.
- 4. (Withdrawn) The intracorporeal device according to claim 3, wherein the joining elements have a density of joining elements per unit coil length that decreases along the coil length.
- 5. (Withdrawn) The intracorporeal device according to claim 4, wherein the density of joining elements per unit coil length decreases in the distal direction along the coil length.
- 6. (Previously presented) The intracorporeal device according to claim 1, wherein the joining elements form a uniform pattern of joining elements along the coil length.
- 7. (Original) The intracorporeal device according to claim 1, wherein each joining element couples 3 to 10 coil windings.

- 8. (Original) The intracorporeal device according to claim 1, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 9. (Original) The intracorporeal device according to claim 1, wherein each joining element is a discrete element having a width in the range of 0.1 to 0.5 mm and a length in the range of 0.1 to 1.5 mm.
 - 10. (Original) An intracorporeal device comprising:
 - a) a helically wound coil having a plurality of windings forming a coil length; and
- b) a plurality of joining elements disposed along the coil length, wherein each joining element only couples two or more coil windings.
- 11. (Original) The intracorporeal device according to claim 10, wherein the plurality of joining elements includes at least 10 elements disposed along the coil length.
- 12. (Withdrawn) The intracorporeal device according to claim 10, wherein the plurality of joining elements form a non-uniform pattern of joining elements along the coil length.
- 13. (Withdrawn) The intracorporeal device according to claim 12, wherein the plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.
- 14. (Withdrawn) The intracorporeal device according to claim 13, wherein the density of joining elements per unit coil length decreases in the distal direction along the coil length.
- 15. (Original) The intracorporeal device according to claim 10, wherein the plurality of joining elements form a uniform pattern of joining elements along the coil length.

- 16. (Original) The intracorporeal device according to claim 10, wherein each joining element couples 3 to 10 coil windings.
- 17. (Original) The intracorporeal device according to claim 10, wherein each joining elements is a discrete element aligned orthogonal to the windings.
- 18. (Original) The intracorporeal device according to claim 10, wherein each joining element is a discrete element having a width of 0.1 to 0.5 micrometer and a length of 0.1 to 1.5 mm.
 - 19. (Original) An intracorporeal device comprising:
- a) a helically wound coil having a plurality of windings having an outer perimeter and forming a coil length; and
- b) a plurality of joining elements disposed on only a portion of the outer perimeter and along the coil length, wherein each joining element couples two or more coil windings.
- 20. (Original) The intracorporeal device according to claim 19, wherein the plurality of joining elements includes at least 10 elements disposed along the coil length.
- 21. (Withdrawn) The intracorporeal device according to claim 19, wherein the plurality of joining elements form a non-uniform pattern of joining elements along the coil length.
- 22. (Withdrawn) The intracorporeal device according to claim 21, wherein the plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.
- 23. (Original) The intracorporeal device according to claim 19, wherein the plurality of joining elements form a uniform pattern of joining elements along the coil length.

- 24. (Original) The intracorporeal device according to claim 19, wherein each joining element couples 3 to 10 coil windings.
- 25. (Original) The intracorporeal device according to claim 19, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 26. (Original) The intracorporeal device according to claim 19, wherein each joining element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
- 27. (Original) The intracorporeal device according to claim 19, wherein each joining element is disposed on less than 1/10 of the outer perimeter of each winding.
 - 28. (Original) A medical device comprising:
 - a) an elongate shaft;
- b) a helically wound coil having a plurality of windings having an outer perimeter and forming a coil length disposed about a portion of the elongate shaft; and
- c) a plurality of joining elements disposed on only a portion of the outer perimeter and along the coil length, wherein each joining element couples two or more coil windings.
- 29. (Original) The medical device according to claim 28, wherein the plurality of joining elements includes 10 elements disposed along the coil length.
- 30. (Withdrawn) The medical device according to claim 28, wherein the plurality of joining elements form a non-uniform joining element pattern along the coil length.
- 31. (Withdrawn) The medical device according to claim 30, wherein the plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.

- 32. (Original) The medical device according to claim 28, wherein the plurality of joining elements form a uniform joining element pattern along the coil length.
- 33. (Original) The medical device according to claim 28, wherein each joining element couples 3 to 10 coil windings.
- 34. (Original) The medical device according to claim 28, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 35. (Original) The medical device according to claim 28, wherein each joining element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
 - 36. (Original) A guidewire comprising:
 - a) an elongate shaft having a proximal end and an opposing distal end;
- b) a helically wound coil having a plurality of windings having an outer perimeter and forming a coil length disposed about a portion of the distal end; and
- c) a plurality of joining elements disposed on only a portion of the outer perimeter and along the coil length, wherein each joining element couples two coil windings.
- 37. (Original) The guidewire device according to claim 36, wherein the plurality of joining elements includes 10 elements disposed along the coil length.
- 38. (Withdrawn) The guidewire device according to claim 36, wherein the plurality of joining elements form a non-uniform joining element pattern along the coil length.
- 39. (Withdrawn) The guidewire device according to claim 38, wherein the plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.

- 40. (Original) The guidewire device according to claim 36, wherein the plurality of joining elements form a uniform joining element pattern along the coil length.
- 41. (Original) The guidewire device according to claim 36, wherein each joining element couples 3 to 10 coil windings.
- 42. (Original) The guidewire device according to claim 36, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 43. (Original) The guidewire device according to claim 36, wherein each joining element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
- 44. (Withdrawn) The guidewire according to claim 39, wherein the helically wound coil has a proximal end and a distal end and where the density of joining elements per unit length decreases from the proximal end to the distal end.
 - 45. (Withdrawn) A guidewire comprising:
 - a) an elongate shaft having a proximal end and an opposing distal end;
- b) a helically wound coil having a plurality of windings having an outer perimeter and forming a coil length disposed about a portion of the distal end; and
- c) a plurality of joining elements disposed on only a portion of the outer perimeter and along the coil length, wherein each joining element couples two coil windings;
- d) a second coil having a plurality of windings circumferentially disposed about the first coil wherein the joining elements couple a plurality of second coil windings to adjacent first coil windings.
- 46. (Withdrawn) The guidewire device according to claim 45, wherein the plurality of joining elements includes at least 10 elements disposed along the coil length.

- 47. (Withdrawn) The guidewire device according to claim 45, wherein the plurality of joining elements form a non-uniform joining element pattern along the coil length.
- 48. (Withdrawn) The guidewire device according to claim 45, wherein the plurality of joining elements form a uniform joining element pattern along the coil length.
- 49. (Withdrawn) The guidewire device according to claim 45, wherein each joining element couples 3 to 10 coil windings.
- 50. (Withdrawn) The guidewire device according to claim 45, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 51. (Withdrawn) The guidewire device according to claim 45, wherein each joining element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
- 52. (Withdrawn) A process for forming and intracorporeal device comprising; forming a plurality of joining elements on a helically wound coil having a plurality of windings that define an outer perimeter and form a coil length, wherein the joining elements are disposed on only a portion of the outer perimeter and along the coil length and each joining element couples two coil windings.
- 53. (Withdrawn) The process according to claim 52, wherein the forming a plurality of joining elements comprises applying thermal energy to the coil.
- 54. (Withdrawn) The process according to claim 52, wherein the forming a plurality of joining elements comprises applying laser energy to the coil.
- 55. (Withdrawn) The process according to claim 52, wherein the forming a plurality of joining elements comprises applying laser diode soldering to the coil.

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56. (Withdrawn) The process according to claim 52, wherein the forming a

plurality of joining elements includes forming at least 10 elements disposed along the coil

length.

57. (Withdrawn) The process according to claim 52, wherein the forming a

plurality of joining elements includes forming a non-uniform joining element pattern along

the coil length.

58. (Withdrawn) The process according to claim 57, wherein the forming a

plurality of joining elements includes forming a plurality of joining elements that has a

density of joining elements per unit coil length that decreases along the coil length.

59. (Withdrawn) The process according to claim 52, wherein the forming a

plurality of joining elements includes forming a uniform joining element pattern along the coil

length.

60. (Withdrawn) The process according to claim 52, wherein the forming a

plurality of joining elements includes forming a plurality of joining elements wherein each

joining element couples 3 to 10 coil windings.

61. (Withdrawn) The process according to claim 52, wherein the forming a

plurality of joining elements includes forming discrete elements wherein each discrete

element is aligned orthogonal to the windings.

62. (Withdrawn) The process according to claim 52, wherein the forming a

plurality of joining elements includes forming discrete elements wherein each discrete

element has a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.

63. (Withdrawn) A product produced by the process of claim 52.

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